

Valve metal oxide powders and process for the production thereof

Abstract

A process for the production of a valve metal oxide powder, in particular an Nb_2O_5 or Ta_2O_5 powder by continuous reaction of a fluoride-containing valve metal compound with a base in the presence of water and calcination of the resultant product, wherein the reaction is performed in just one reaction vessel and at a temperature of at least 45°C . Valve metal oxide powders obtainable in said manner which exhibit a spherical morphology, a D_{50} value of 10 to $80\ \mu\text{m}$ and an elevated BET surface area.

(Fig. 2)